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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,427	02/05/2009	Jenifer Heydinger Galante	15409US02	4709
23446 7590 10/06/2009 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET SUITE 3400			EXAMINER	
			CARR, DEBORAH D	
CHICAGO, IL	60661		ART UNIT	PAPER NUMBER
			1621	
			MAIL DATE	DELIVERY MODE
			10/06/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Occurrence	10/585,427	GALANTE ET AL.				
Office Action Summary	Examiner	Art Unit				
	DEBORAH D. CARR	1621				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	-· action is non-final.					
3) Since this application is in condition for allowar		secution as to the merits is				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
. 4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
,—	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) 🔲 Information Disclosure Statement(s) (PTO/SB/08) 5) 🔲 Notice of Informal Patent Application						
Paper No(s)/Mail Date <u>1/07, 11/07</u> . 6)						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-20 rejected under 35 U.S.C. 102(b) as being anticipated by Sugiura et al. (US Pat. 6,361,980).

US'980 teaches a process of preparing a controlled mixture of 1,2- and 1,3- diglycorides esters of fatty acids comprising the steps of (a) circulating a reaction mixture thought an enzymatic reaction zone A that is maintained at a temperature conducive to enzymatic catalysis and step (b) circulating the reaction mixture through a thermal zone B at a temperature to facilitate the rearrangement of 1,3- diglycerides to 1,2-diglycerides. This method creates a mixture of glycerol, glyceride or a mixture in combination with fatty acids, fatty acid derivatives or mixtures thereof.

Claims 2-4 limit the reaction conditions of the above process. US'980 also teach a processes of an enzymatic reaction zone (Zone A) using a 1,3 specific lipase (Figure 1). The subsequent solution is fed into dehydration reactor (Zone B) that is heated where some 1,3-diglycerides are rearranged to 1,2-diglyceride (col 3, lines 1-5). The reaction temperatures for the two zones are as low as 20 °C for Zone A and Zone B is 40 °C.

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Also taught is the use of multiple saturated and unsaturated fatty acids, including glycerides of linoleic acids (col 10, claims 9 and 10). They also teach that the 1,3-specific lipase using in Zone A is obtained from Rhizomucor miehi as well 5, lines 45-50). This lipase is immobilized in a non-reactive matrix (col 5, lines 40-50). The mole ratio of fatty acids to glycerol in their reaction mix is between 0.5:1 to 3.5:1. US'980 teach the recirculation of their reaction mix to the Zone A (col 2, lines 10-15) that produces triglycerides as well.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DEBORAH D. CARR whose telephone number is (571)272-0637. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel M. Sullivan can be reached on 571-272-0779. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah D Carr/ Primary Examiner Art Unit 1621

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